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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,518		09/22/2003	Andre Stamm	107664.115 US11 5827 EXAMINER	
26694	7590	07/26/2006			
VENABLE	LLP		SHEIKH, HUMERA N		
P.O. BOX 3 WASHING		20045-9998		ART UNIT	PAPER NUMBER
	· , – -			1615	
				DATE MAILED: 07/26/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/665,518	STAMM ET AL.	
Office Action Summary	Examiner	Art Unit	
	Humera N. Sheikh	1615	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory pe Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNION R 1.136(a). In no event, however, may a r n. riod will apply and will expire SIX (6) MON latute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communicat ANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 1 2a)□ This action is FINAL . 2b)□ 2 3)□ Since this application is in condition for all closed in accordance with the practice und	This action is non-final. owance except for formal matt		is
Disposition of Claims			
4) Claim(s) <u>1-45</u> is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) <u>1-45</u> is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the con 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyar rrection is required if the drawing	ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121	(d).
Priority under 35 U.S.C. § 119			
12) △ Acknowledgment is made of a claim for fore a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority document of the priori	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage	D
	•	HUMBERIN. SHELL	era ia ICP
Attachment(s)		PATENT EXI	7111/1VB-
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date <u>5/08/06;6/19/06</u>. 	Paper No(s	merman atom approauon (* 10 102)	X CC

DETAILED ACTION

Status of the Application

Claims 1-45 are pending in this action. Claims 1-45 are rejected.

Terminal Disclaimer

The terminal disclaimers filed on 05/02/06 & 06/19/06 disclaiming the terminal portion

of any patent granted on this application which would extend beyond the expiration date of any

patent granted on Application Numbers: 10/665,517; 10/665,518; 10/665,519; 10/665,520;

10/665,522 & 10/290,333 (now U.S. Pat. No. 7,041,319) has been reviewed and is accepted.

The terminal disclaimer has been recorded.

The terminal disclaimers filed on 05/02/06 disclaiming the terminal portion of any patent

granted on this application which would extend beyond the expiration date of U.S. Patent Nos.:

6,652,881; 6,589,552; 6,596,317; 6,277,405; 6,074,670 & 7,037,529 has been reviewed and is

accepted. The terminal disclaimer has been recorded.

Inventorship

This application currently names joint inventors. In considering patentability of the

claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

claims was commonly owned at the time any inventions covered therein were made absent any

evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

the inventor and invention dates of each claim that was not commonly owned at the time a later

Art Unit: 1615

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Curtet et al. (US Pat. No. 4,895,726) in view of Kerč et al. (US Pat. No. 6,042,847).

The instant invention is drawn to a capsule comprising a fenofibrate composition, said fenofibrate composition comprising fenofibrate, at least one hydrophilic polymer and at least one disintegrating agent, wherein the weight ratio of fenofibrate to hydrophilic polymer is between 1:10 and 4:1.

Art Unit: 1615

Curtet et al. ('726) teach a fenofibrate composition which is presented in the form of gelatin capsules and which is especially useful in the oral treatment of hyperlipidemia and hypercholesterolemia, whereby the composition comprises fenofibrate particles in combination with a solid surfactant, wherein the fenofibrate and solid surfactant have been co-micronized (see reference column 1, line 1 - col. 2, line 68) and Claim 1.

Curtet *et al.* teach that the recommended amount of fenofibrate is about 200 mg per therapeutic unit and the mean particle size of the fenofibrate is less than 15 microns, preferably less than 10 microns and particularly preferably less than 5 microns (col. 1, lines 50-66). Curtet et al. teach that to obtain a powder which can be formulated into gelatin capsules, conventional filling, dispersing and flow-enhancing excipients, for example, lactose, starch, polyvinylpyrrolidone and magnesium stearate may be added to the co-micronizate of fenofibrate and solid surfactant (col.1, line 67 through col. 2, line 4). Suitable disintegrants disclosed include crosslinked polyvinylpyrrolidone (col. 2, lines 36-37) and starch (col. 3, line 28).

Curtet *et al.* teach a method for preparing a therapeutic composition comprising fenofibrate and a solid surfactant, which comprises (i) intimately mixing and then comicronizing the fenofibrate and the solid surfactant, (ii) adding lactose and starch to the mixture obtained, (iii) converting the whole to granules in the presence of water, (iv) drying the granules until they contain no more than 1% of water, (v) grading the granules, (vi) adding polyvinylpyrrolidone and magnesium stearate to the graded granules and (vii) filling gelatin capsules with the mixture obtained in stage (vi). The mean particle size of the micronized mixture obtained is less than 15 microns (µm) (see reference column 2, lines 5-20).

Curtet *et al.* teach overlapping amounts of fenofibrate and the hydrophilic polymer-polyvinylpyrrolidone, wherein the fenofibrate is present in an amount of 200 mg per therapeutic unit (col. 1, lines 50-51) and the polyvinylpyrrolidone is contained in an amount of 7 mg (col. 3, lines 21-32). The fenofibrate/solid surfactant mixture granules have a mean particle size of less than 15 μ m (col. 1, lines 61-66).

According to Curtet *et al.*, it is known that the micronization of an active principle is capable of improving the dissolution of the said active principle in vivo, and hence its bioavailability. It is also known that the addition of a surfactant excipient to a formulation of an active principle is capable of improving the absorption and consequently the bioavailability of the said active principle (col. 1, lines 28-34).

The fenofibrate composition can be presented in the form of gelatin capsules, which are especially useful in the oral treatment of hyperlipidemia and hypercholesterolemia (col. 1, lines 44-49).

Example 1 at column 2 demonstrates gelatin capsules containing drug, fenofibrate (20.0 kg), sodium laurly sulfate (0.7 kg), α-lactose monohydrate (10.1 kg), pregelatinized starch, disintegrant - cross-linked polyvinylpyrrolidone (0.7 kg) and magnesium stearate (0.5 kg).

Curtet et al. teach that the weight ratio of surfactant/fenofibrate will be between about 0.75/100 and 10.5/100 (col. 1, lines 59-60). Curtet et al. do not explicitly teach the claimed weight ratio of the fenofibrate/hydrophilic polymer. Curtet et al. also do not teach the claimed fenofibrate amounts/ranges. However, it is the position of the Examiner that Applicants have not demonstrated any unexpected or superior results attributable to the claimed weight ratio of the fenofibrate/polymer, nor the amounts of fenofibrate claimed, nor the particular hydrophilic

Art Unit: 1615

polymer. Suitable or effective weight ratios of drug/polymer, surfactant/polymer and amounts ranges of drug/polymer could be determined by one of ordinary skill in the pharmaceutical art through routine or manipulative experimentation to obtain optimal results, as these are indeed variable parameters attainable within the art.

Curtet *et al.* teach a hydrophilic polymer, such as polyvinylpyrrolidone. Curtet *et al.* do not teach the hydrophilic polymer being hydroxypropylcellulose.

Kerč et al. (847) teach a three-phase fenofibrate pharmaceutical formulation for daily peroral application, wherein the composition comprises cellulose ethers, such as hydroxypropylcellulose and whereby the compositions can be in the form of tablets or capsules. According to Kerč et al., the cellulose ethers act as an agent for sustained and controlled release of the active ingredient (see reference column 1, lines 18-22); (col. 6, lines 4-28).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate hydrophilic polymers, such as hydroxypropylcellulose, as taught by Kerč *et al.* within the fenofibrate compositions of Curtet *et al.* One of ordinary skill in the art would be motivated to do so with a reasonable expectation of success because Kerč *et al.* explicitly teach a fenofibrate composition that comprises cellulose ethers, such as hydroxypropylcellulose that act as an agent for sustained and controlled release of the active ingredient. The expected result would be an improved, sustained or controlled release capsular fenofibrate composition for the treatment of high cholesterol levels.

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Art Unit: 1615

Given the explicit teachings of Curtet et al. and Kerč et al., the instant invention, when taken as a whole, would have been deemed prima facie obvious to one of ordinary skill in the art at the time the invention was made.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Humera N. Sheikh whose telephone number is (571) 272-0604. The examiner can normally be reached on Monday through Friday from 8:00A.M. to 5:30P.M. alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, can be reached on (571) 272-8373. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

Humera N. Sheikh

Patent Examiner

Art Unit 1615

June 24, 2006